INDEX

THEORETICAL AND MATHEMATICAL PHYSICS

Volumes 6-9, 1971

INDEX

THEORETICAL AND MATHEMATICAL PHYSICS

Volumes 6-9, 1971

(A translation of Teoreticheskaya i Matematicheskaya Fizika)

A

Aleksandrov, I. V. -831, 913
Asanov, R. A. -242
Asherova, R. M. -813

B

Bakhrakh, V. L. -283
Baluni, V. Z. -236
Barbashov, B. M. -1183
Bashkanskii, É. G. -584
Baum, I. V. -244
Belokolos, E. D. -368
Berezanskii, Yu. M. -754
Berezin, F. A. -141
Bikkin, H. M. -380
Biryukov, A. A. -364
Bogolyubov, N. N. -169
Bogoslovskii, G. Yu. -690
Braun, M. A. -229, 654
Budnev, B. M. -39
Bulinskii, A. V. -865
Burban, I. M. -1165
Bychkov, Yu. A. -307

C

Chavleishvili, M. P. -639
Chernavskii, D. S. -487

D

Dadashev, L. A. -851, 1155
Donkov, A. D. -673
Dykhne, A. M. -307

E

Evlashev, Yu. A. -229
Ezhela, V. V. -29, 348, 467

F

Faddeev, L. D. -843
Fedorov, F. I. -564
Fedoseev, I. A. -546
Fedyanin, V. K. -504
Fet, A. I. -1081
Filippov, A. T. -629
Fushchich, V. I. -251, 323, 766, 1001

G

Gaididei, Yu. B. -313, 393
Gareev, F. A. -699
Garsevanishvili, V. R. -24, 473
Gataullin, T. M. -1117
Getmanov, B. S. -629
Ginzburg, I. F. -39
Gol'fand, Yu. A. -131
Goloskokov, S. V. -24
Golubeva, V. A. -1210
Gorbatenko, M. V. -244
Govorkov, A. B. -495
Grashin, A. F. -682
Grishchenko, A. L. -766

H

Holevo, A. S. -1, 103

I

Il'ichev, A. N. -221
Ivanova, S. P. -699
Izergin, A. G. -654
Izmest'ev, A. A. -591

J

Jolos, R. V. -291

K

Kadyshevskii, G. V. -473, 673
Kalashnikov, V. P. -206, 380, 600, 1003, 1230
Kalinkin, B. N. -1108
Karasev, M. V. -1117
Khatset, B. I. -169
Kholomai, B. V. -56
Khomkin, A. L. -708
Khon'kin, A. D. -1146
Khoruzhii, S. S. -862
Khrustalev, O. A. -113, 344, 939, 979, 1043
Kil'dyushov, M. S. -997
Klimantovich, Yu. L. -1013
Klimyk, A. U. -668
Konwent, H. - 715
Korst, N. N. -196
Koshmanenko, V. D. -754
Kovalenko, N. P. -412
Krasnyi, Yu. P. -412
Kruglik, G. S. -722
Kulish, P. P. -18
Kuni, F. M. -1024
Kurdyumov, I. V. -356
Kuzemskii, A. L. -78
Kvinikhidze, A. N. -120, 1072

L

Levitskii, B. A. -791
Leznov, A. N. -546, 743
Logunov, A. A. -29, 103, 939, 1043
Luk'yanov, A. A. -1224

M

Malkin, I. A. -51
Man'ko, V. I. -51
Markovskii, B. L. -120
Mateev, M. D. -673
Matveev, V. A. -24, 968
Matveev, V. B. -663
Medvedev, B. V. -737
Merkur'ov, S. P. -798
Mestvirishvili, M. A. -29, 465, 467, 776, 939, 1043
Miranskii, V. A. -783
Mir-Kasimov, R. M. -473, 673
Mityugov, V. V. -584
Molchanov, V. F. -810
Moskalenko, V. A. -375
Muradyan, R. M. -639

N

Nepomnyashchii, Yu. A. -928, 1033
Nesterenko, V. V. -1183
Nguyen Van Hieu -561, 885
Nikitin, A. G. -766
Nikolov, A. V. -1199

O

Oksak, A. I. -435
Ovchinnikov, A. A. -418
Ovchinnikova, M. Ya. -418
Ozrin, V. D. -520

P

Pastur, L. A. -299
Pavlov, V. P. -737, 993
Pekar, V. S. -1256
Peletminskii, S. V. -88, 175, 617
Perelomov, A. M. -156, 263
Pervushin, V. N. -1127
Petrina, D. Ya. -169, 896
Petrov, É. G. -313, 393
Plakida, N. M. -715
Popov, Kh. D. -1072
Popov, V. N. -65
Potapkov, N. A. -905
Prokhorov, L. V. -221
Prokhratilov, E. V. -983
Pukhov, I. M. -487
Pyzh'yanov, A. M. -165

R

Rcheulishvili, G. L. -776
Roepke, G. -216
Romanov, Yu. A. -244
Rumer, Yu. B. -1081

S

Savel'ev, M. V. -743
Savrin, V. I. -113, 344, 979
Serbo, V. G. -39
Serebrennikov, V. B. -644
Shabad, A. E. -644
Sherstyuk, A. I. -579
Shirikova, N. Yu. -699
Shirokov, Yu. M. -1176
Shitikova, K. V. -356
Shnol', É. É. -729
Simyatitskii, I. L. -169
Skachkov, N. B. -473
Skripnik, V. I. -896
Slavnov, A. A. -331, 843
Slepchenko, L. A. -24
Smirnov, L. I. -63
Smirnov, Yu. F. -356, 813
Sokolov, A. A. -56
Sokolov, S. N. -485
Sokur, L. P. -251
Solov'ev, M. A. -458
Stasyuk, I. V. -1249
Storonkin, B. A. -1024
Stoyanov, D. Ts. -120, 1072
Sukhanov, A. D. -737
Sushko, V. N. -862, 1086
Svidzinskii, A. V. -1134

T

Tavkhelidze, A. N. -24, 120, 968, 1072
Tavluev, G. A. -993
Teplitskii, É. Sh. -426
Ternov, I. M. -56
Tkharev, E. E. -564
Todorov, I. T. -435
Tolstoi, V. N. -813
Tserkovnikov, Yu. A. -511, 826
Tsukanov, V. D. -175, 617
Tumanov, V. S. -1217
Tyurin, N. E. -113, 344, 972

U

Ursu, A. M. -375

V

Vagradov, G. M. -1108
Vetchinkin, S. I. -283
Vilkovyskii, G. A. -889
Vinogradov, V. M. -539, 876
Volkov, M. K. -13
Volovich, I. V. -1086
Vorob'ev, V. S. -708
Voznesenskii, G. F. -1239

W

Walasek, K. -78, 190

Y

Yakymiv, Ya. M. -1169

Z

Zastavenko, L. G. -336, 870, 1181
Zharinov, V. V. -108, 1101
Zhelifonov, M. P. -920
Zhigulev, V. N. -401, 527
Zhislin, G. M. -571
Zhukovskii, V. Ch. -56
Zubarev, D. N. -660

THEORETICAL AND MATHEMATICAL PHYSICS

Volumes 6-9, 1971

(A translation of Teoreticheskaya i Matematicheskaya Fizika)

Volume 6, Number 1 January, 1971

	Engl.	Russ.
Quasi-Free States on the C* Algebra of CCR – A. S. Holevo	1	3
Analytic Structure of Superpropagators in the Coupling Constant – M. K. Volkov	13	21
Asymptotic States of Massive Particles Interacting with the Gravitational Field – P. P. Kulish	18	28
Allowance for Corrections to the Eikonal Approximation in the Quasipotential Approach – V. R. Garsevanishvili, S. V. Goloskokov, V. A. Matveev, L. A. Slepchenko, and A. N. Tavkhelidze	24	36
Unitarity Condition and Decrease of the Differential Cross Section of Multiparticle Production with Increasing Energy – V. V. Ezhela, A. A. Logunov, and M. A. Mestvirishvili	29	42
Quantum Field Theory and Diffraction Scattering of Mesons and Baryons – B. M. Budnev, I. F. Ginzburg, and V. G. Serbo	39	55
Coherent States and Excitation of a Charged Particle in a Constant Magnetic Field by Means of an Electric Field – I. A. Malkin and V. I. Man'ko	51	71
Quantum Theory of the Motion of Relativistic Electrons in an Axisymmetric Magnetic Field of a Focusing Type – V. Ch Zhukovskii, A. A. Sokolov, I. M. Ternov, and B. V. Kholomai	56	78
Theory of Fermions with Zero Mass – L. I. Smirnov	63	87
Application of Functional Integration to the Derivation of the Low-Frequency Asymptotic Behavior of Green's Functions and Kinetic Equations for a Nonideal Bose Gas – V. N. Popov	65	90
Theory of Zeeman Level Widths of Nuclear Spins in Solid Orthohydrogen – K. Walasek and A. L. Kuzemskii	78	109
Theory of Kinetic Equations for Systems with Bound States of Particles – S. V. Peletminskii	88	123

Volume 6, Number 2 February, 1971

Quasifree States of the C* Algebra of CCR. II – A. S. Holevo	103	145
On the Nakanishi Representation – V. V. Zharinov	108	151
One-Time Equation for a Two-Particle System in Quantum Field Theory – A. A. Logunov, V. I. Savrin, N. E. Tyurin, and O. A. Khrustalev	113	157
Method of Coherent States and Factorization of Dual Amplitudes – A. N. Kvinikhidze, B. L. Markovskii, D. Ts. Stoyanov, and A. N. Tavkhelidze	120	166
Dynamical Theory of the Vacuum – Yu. A. Gol'fand	131	180
Non-Wiener Functional Integrals – F. A. Berezin	141	194
On the Completeness of a System of Coherent States – A. M. Perelomov	156	213
Estimate of the Perturbation of the Eigenvalues of a Two-Particle Schrödinger Operator with a Hard-Core Potential – A. M. Pyzh'yanov	165	225

Engl./Russ.

Comments on the Paper "Mathematical Description of the Equilibrium State of Classical Systems on the Basis of the Canonical Ensemble Formalism" by N. N. Bogolyubov, D. Ya. Petrina, and B. I. Khatset – I. L. Simyatitskii . . . 169 230
Kinetics of Spatially Inhomogeneous States – S. V. Peletminskii and V. D. Tsukanov . . . 175 238
Theory of Libron Excitations in Solid Orthohydrogen in the Bose Approximation – K. Walasek . . . 190 257
Semiclassical Theory of Spin Relaxation in Media with a High Viscosity – N. N. Korst . . . 196 265
Kinetics of Hot Electrons in Quantizing Magnetic Fields. II. Diffusion Approximation – V. P. Kalashnikov . . . 206 279
Derivation of Equations of Motion for the Magnetization of an Antiferromagnet – G. Roepke . . . 216 294

Volume 6, Number 3 March, 1971

Phenomenological Lagrangians in Quantum Field Theory – A. N. Il'ichev and L. V. Prokhorov . . . 221 305
On the S Matrix for a Field Theory with Lagrangians that Depend on Derivatives – M. A. Braun and Yu. A. Evlashev . . . 229 318
Radius of the π-Meson and Analytic Properties of Its Form Factor – V. Z. Baluni . . . 236 328
On the Total Electric Charge and Mass of an Elliptic Universe – R. A. Asanov . . . 242 335
Matrix-Space Dynamics with Allowance for Third-Order Terms in the Lagrangian – I. V. Baum, M. V. Gorbatenko, and Yu. A. Romanov . . . 244 338
Equations of Motion Invariant under the Group $\mathcal{P}(1, n)$. II. – L. P. Sokur and V. I. Fushchich . . . 251 348
Algebraic Approach to the Solution of a One-Dimensional Model of N Interacting Particles – A. M. Perelomov . . . 263 364
Green's Functions of the Schrödinger Equation for the Simplest Systems – V. L. Bakhrakh and S. I. Vetchinkin . . . 283 392
Pairing Correlations and Collective 0^+ States of Nuclei. I. – R. V. Jolos . . . 291 403
On the Schrödinger Equation with a Random Potential – L. A. Pastur . . . 299 415
On the Theory of Impurity Conduction – Yu. A. Bychkov and A. M. Dykhne . . . 307 425
Theory of Band and Bound States of Double Triplet Excitations in Molecular Crystals. I. – Yu. B. Gaididay and E. G. Petrov . . . 313 433

Volume 7, Number 1 April, 1971

Additional Invariance of Relativistic Equations of Motion – V. I. Fushchich . . . 323 3
Anomalous Ward Identities in Renormalized Perturbation Theory – A. A. Slavnov . . . 331 13
On the Ground State of the Hamiltonian in the Simplest Model of Quantum-Field Theory – L. G. Zastavenko . . . 336 20
Condition of Asymptotic Equality of Total Cross Sections in Two Simple Models – V. I. Savrin, N. E. Tyurin, and O. A. Khrustalev . . . 344 30
Integral Representation of Expansions in Wigner Functions – V. V. Ezhela . . . 348 35
On the Relationship between the Translationally Invariant Shell Model and the K-Harmonics Method – I. V. Kurdyumov, Yu. F. Smirnov, and K. V. Shitikova . . . 356 45
Markov Chains for Compatible States and the Equations of Quantum Mechanics – A. A. Biryukov . . . 364 56
Irreducible Representations of the Translational Symmetry Operators of the Hamiltonian of a Bloch Electron in a Magnetic Field – E. D. Belokolos . . . 368 61
Density of Electron States of a Superconductor with a Low Concentration of a Paramagnetic Impurity – V. A. Moskalenko and A. M. Ursu . . . 375 72

	Engl./Russ.	
Theory of Paramagnetic Resonance and Relaxation of Conduction Electrons in Quantizing Magnetic Fields – H. M. Bikkin and V. P. Kalashnikov	380	79
Theory of Band and Bound States of Double Triplet Excitations in Molecular Crystals. II – Yu. B. Gaididei and É. G. Petrov	393	95
Investigation of Bogolyubov's Chain of Equations for Strongly Correlated Statistical Systems – V. N. Zhigulev	401	106
Percus–Yevick Equation for Systems in External Fields – N. P. Kovalenko and Yu. P. Krasnyi	412	121
Influence of the Temperature and the Dielectric Characteristics of a Medium on the Properties of a Polaron – M. Ya. Ovchinnikova and A. A. Ovchinnikov	418	129
On the Quantum-Statistical Theory of the Interaction of Radiation with Elementary Boson-Type Excitations – É. Sh. Teplitskii	426	139

Volume 7, Number 2 May, 1971

Two-Point Functions of Local Infinite-Component Fields – A. I. Oksak and I. T. Todorov	435	153
On the Class of Distributions Compatible with Locality – M. A. Solov'ev	458	183
Vector Dominance and Decrease of the Differential Cross Section of Lepton-Pair Production at High Energies and Large Scattering Angles – M. A. Mestvirishvili	465	192
Constraints on Growth of Binary Process Amplitudes – V. V. Ezhela and M. A. Mestvirishvili	467	195
Representation for Relativistic Scattering Amplitude at High Energies – V. R. Garsevanishvili, V. G. Kadyshevskii, R. N. Mir-Kasimov, and N. B. Skachkov	473	203
On the Parametrization of the Phase Space of N Relativistic Particles – S. N. Sokolov	485	217
On Phase Instability in the Case of Scattering by a Random Potential – I. M. Pukhov and D. D. Chernavskii	487	219
Example of the Application of Parastatistics for Nucleon Pairs in Nuclear Shells – A. B. Govorkov	495	230
On the Critical Indices in the Ising Model – V. K. Fedyanin	504	241
Decoupling of Chains of Equations for Two-Time Green's Functions – Yu. A. Tserkovnikov	511	250
Properties of Single-Particle Excitation Spectrum for a Normal Fermi System at Low Temperatures – V. D. Ozrin	520	262
On the Problem of the Fundamental Characteristics of the Motion of a Continuous Medium – V. N. Zhigulev	527	271

Volume 7, Number 3 June, 1971

Three-Dimensional Covariant Formulation of the Two-Body Problem in Quantum Field Theory – V. M. Vinogradov	539	289
Representations of Noncompact Symplectic Groups – A. N. Leznov and I. A. Fedoseev	546	298
On the Behavior of the Elastic Scattering Amplitude for Values of the Momentum Transfer that Decrease as const $\ln^{-2}s$ – Nguen Van Heu	561	318
Partial Wave Analysis Based on a Complex Vector Parametrization – E. E. Tkharev and F. I. Fedorov	564	322
On the Finiteness of the Discrete Spectrum of the Energy Operator of Negative Atomic and Molecular Ions – G. M. Zhislin	571	332
Generalized Coulomb Green's Function for Bound States of the Nonrelativistic Schrödinger Equation – A. I. Sherstyuk	579	342
Group Theory Methods in Photon Statistics – É. G. Bashkanskii and V. V. Mityugov	584	348
Wave Fields of Beam Type and Spatial Quantization of the Angular Momentum – A. A. Izmest'ev	591	358

Equivalence of Various Methods in the Statistical Mechanics of Irreversible Processes – D. N. Zubarev and V. P. Kalashnikov 600 372
On the Kinetics of Systems in Alternating External Fields – S. V. Peletminskii and V. D. Tsukanov 617 395

Volume 8, Number 1 July, 1971

Vertex Function in the Theory of the Weak Interaction of Leptons – B. S. Getmanov and A. T. Filippov 629 3
Low-Energy Theorems for the Scattering of Photons and Gravitons by a Target with Arbitrary Spin – R. M. Muradyan and M. P. Chavleishvili 639 16
Method of Calculation of the Spectrum of a Centrally Symmetric Hamiltonian on the Basis of Approximate O_4 and SU_3 Symmetry – V. B. Serebrennikov and A. E. Shabad 644 23
Composite and Elementary Particles with the Same Quantum Numbers in Quantum Field Theory – M. A. Braun and A. G. Izergin 654 37
Invariance Principle for Generalized Wave Operators – V. B. Matveev 663 49
Wigner–Eckart Theorem for Locally Compact Groups – A. U. Klimyk 668 55
Quasipotential Equation for a Relativistic Harmonic Oscillator – A. D. Donkov, V. G. Kadyshevskii, M. D. Mateev, and R. M. Mir-Kasimov 673 61
On Equations of Nonrelativistic S-Matrix Theory – A. F. Grashin 682 73
Phase Space Invariance Groups and Relativistic Three-Particle States – G. Yu. Bogoslovskii 690 85
Application of Sturm–Liouville Functions to the Solution of the Schrödinger Equation with an Anisotropic Saxon–Woods Potential – F. A. Gareev, S. P. Ivanova, and N. Yu. Shirikova 699 97
Canonical Transformation Method in the Thermodynamics of a Partially Ionized Plasma – V. S. Vorob'ev and A. L. Khomkin 708 109
Phonons in a Ferromagnetic Crystal – H. Konwent and N. M. Plakida 715 119
Collective States and the Statistics of Systems of Identical Atoms – G. S. Kruglik 722 130
Remarks on the Theory of Quasistationary States – E. E. Shnol' 729 140

Volume 8, Number 2 August, 1971

Lagrangian and S Matrix – B. V. Medvedev, V. P. Pavlov, and A. D. Sukhanov 737 153
Plancherel Mesure of the Principal Continuous Series of Unitary Representations of U(p, q) – A. N. Leznov and M. V. Savel'ev 743 161
Axiomatic Field Theory in Terms of Operator Jacobi Matrices – Yu. M. Berezanskii and V. D. Koshmanenko 754 175
On Relativistic Equations of Motion without "Redundant" Components – V. I. Fushchich, A. L. Grishchenko, and A. G. Nikitin 766 192
High-Energy Scattering by a Smooth Potential – M. A. Mestvirishvili and G. L. Rcheulishvili 776 206
Equal-Time Current Commutator and Sum Rules in Axiomatic Field Theory – V. A. Miranskii 783 214
Quantized Scalar Field in Fiedmann–Lobachevskii Space – B. A. Levitskii 791 226
Coordinate Asymptotic Behavior of Three-Particle Wave Functions – S. P. Merkur'ov 798 235
On the Calculation of Weight Multiplicity – V. F. Molchanov 810 251
Projection Operators for Simple Lie Groups – R. M. Asherova, Yu. F. Smirnov, and V. N. Tolstoi 813 255
Kinetic Equations for Time Correlation Functions – Yu. A. Tserkovnikov 826 272

	Engl./Russ.	
Dynamics of Transitions between Symmetric States of Quantum Systems – I. V. Aleksandrov	831	279

Volume 8, Number 3 September, 1971

Invariant Perturbation Theory for Nonlinear Chiral Lagrangians – A. A. Slavnov and L. D. Faddeev	843	297
Some Properties of the Lee Model. I. – L. A. Dadashev	851	308
Properties of H Images of Vector States on Algebras of Observables – V. N. Sushko and S. S. Khoruzhii	862	324
On the Classes of C^* Algebras that Satisfy the Haag–Kastler Axioms – A. V. Bulinskii	865	328
Vacuum Degeneracy of Scalar Charged Field with Self-Interaction $H' = g\int(\varphi^*\varphi)^2 dx$ in the Case of One Spatial Degree of Freedom – L. G. Zastavenko	870	335
Three-Dimensional Covariant Formulation of the Three-Body Problem in Quantum Field Theory – V. M. Vinogradov	876	343
On the Asymptotic Properties of the $K_L^0 + p \to K_S^0 + p$ Amplitude – Nguyen Van Hieu	885	354
On the Quantization of a Particle in an External Gravitational Field – G. A. Vilkovyskii	889	359
Kirkwood–Salzburg Equations for the Coefficient Functions of the S Matrix – D. Ya. Petrina and V. I. Skripnik	896	369
Green's Functions and the Thermodynamic Quantities of the Heisenberg Model with One-Ion Anisotropy – N. A. Potapkov	905	381
Quantum-Statistical Derivation of the Equations of Chemical Kinetics for Reactions of the Type AX + B = A + BX – I. V. Aleksandrov	913	392
Higher Correlation Functions of the Ising Ferromagnet. The Case of a Linear Model for Spin S = 1/2 – M. P. Zhelifonov	920	401
Coherent Crystals with One-Dimensional and Cubic Lattices – Ya. A. Nepomnyashchii	928	413

Volume 9, Number 1 October, 1971

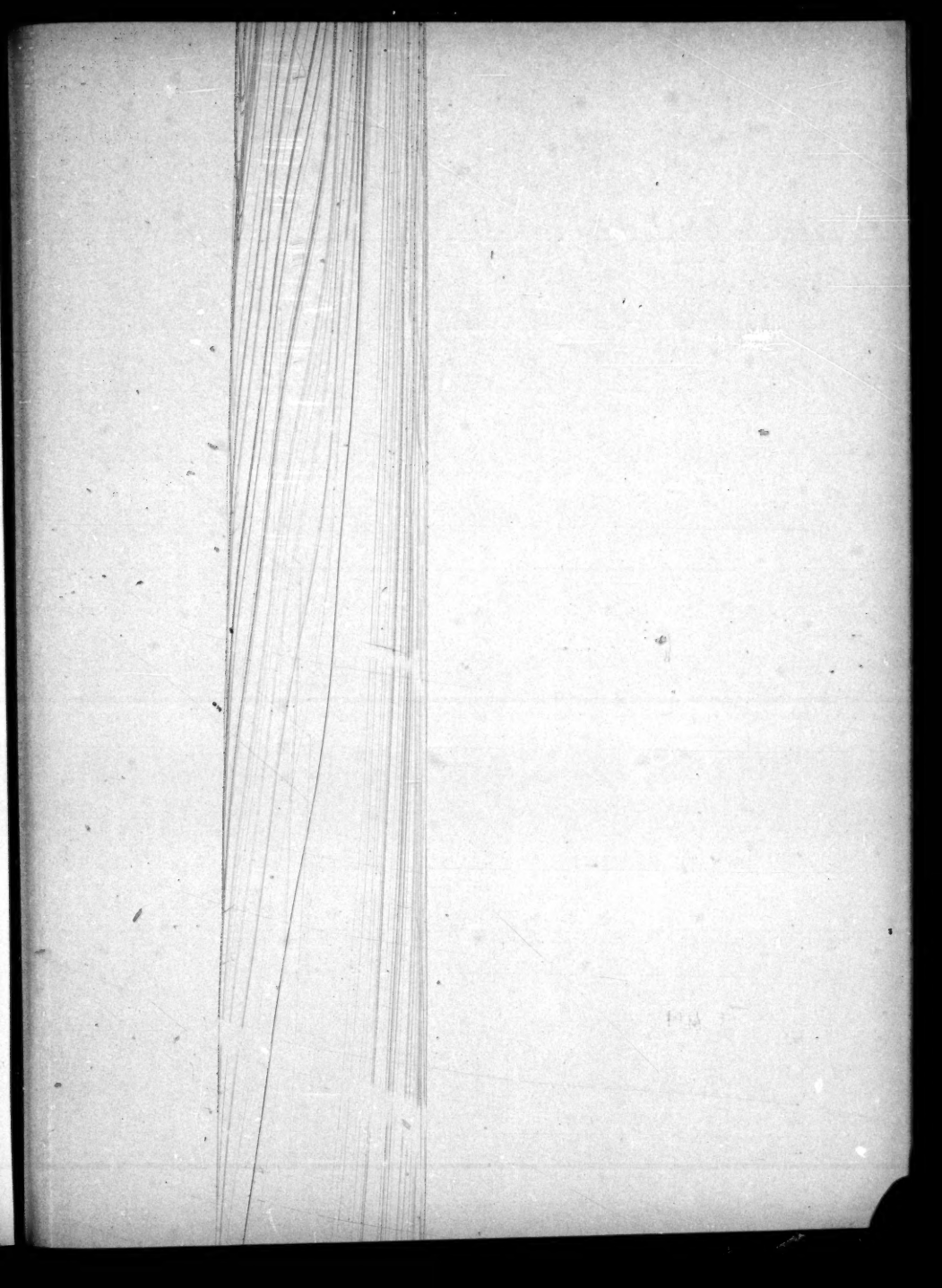
Restrictions on the Behavior of Elastic and Inelastic Cross Sections at High Energies. I – A. A. Logunov, M. A. Mestvirishvili, and O. A. Khrustalev	939	3
On the Representation of Scattering Amplitudes as Path Integrals in Quantum Field Theory – V. A. Matveev and A. N. Tavkhelidze	968	44
Electromagnetic Corrections to the Total Cross Sections for the Interaction of Hadrons – V. I. Savrin, N. E. Tyurin, and O. A. Khrustalev	979	60
Parametrization of Vertex Functions in a Rarita–Schwinger Basis – E. V. Prokhvatilov	983	65
Interaction Hamiltonian in Quantum Field Theory – V. P. Pavlov and G. A. Tavluev	993	80
On the Reduction $U_n \supset O_n$ – M. S. Kil'dyushov	997	86
On PTC-Noninvariant Lagrangians – V. I. Fushchich	1001	91
Response to a Mechanical Perturbation and the Green's Functions for Nonequilibrium Systems – V. P. Kalashnikov	1003	94
On Nonequilibrium Fluctuations in a Gas – Yu. L. Klimontovich	1013	109
Nonequilibrium Statistical Mean Values in a Nonlinear Approximation in the Gradients of the Thermodynamic Parameters – F. M. Kuni and B. A. Storonkin	1024	124
Collective Spectrum of Coherent Crystals – Yu. A. Nepomnyashchii and A. A. Nepomnyashchii	1033	137

Volume 9, Number 2 November, 1971

Restrictions on the Behavior of Elastic and Inelastic Cross Sections at High Energies. II. – A. A. Logunov, M. A. Mestvirishvili, and O. A. Khrustalev.	1043	153

Factorization of Dual Amplitudes by Means of the Coherent States of a Five-Dimensional Oscillator and Closed Loops – A. N. Kvinikhidze, Kh. D. Popov, D. Ts. Stoyanov, and A. N. Tavkhelidze 1072 190
The Group Spin (4) and the Mendeleev System – Yu. B. Rumer and A. I. Fet 1081 203
Constructive Field Theory: Thirring Model Interaction $(\bar{\psi}\gamma^{\mu}\psi)^2_1$. I. Local Field – I. V. Volovich and V. N. Sushko 1086 211
Integral Representation of Wightman Functions in Two-Dimensional Space-Time – V. V. Zharinov 1101 232
On the Average Field for Quasiparticles in Nuclei – G. M. Vagradov and B. N. Kalinkin 1108 240
On the Perturbation of the Quasilevels of a Schrödinger Operator with Complex Potential – T. M. Gataullin and M. V. Karasev 1117 252
Eikonal Representation for the Amplitudes of Scattering of Dirac Particles by an Arbitrary Potential – V. N. Pervushin 1127 264
Functional Integration Method in the Theory of Superconductivity – A. V. Svidzinskii 1134 273
Spatially Inhomogeneous Solutions of the Averaged Chain of the Equations of the Kinetic Theory of Gases in the Case of Systems with a Strong Statistical Coupling – A. D. Khon'kin 1146 291

Volume 9, Number 3 December, 1971

Translationally Invariant Limit of the Lee Model. II – L. A. Dadashev 1155 305
On Weak Convergence in an Infinite Tensor Product of Hilbert Spaces – I. M. Burban 1165 318
Asymptotic Fields for Approximated Renormalized Two-Dimensional Yukawa Model – Ya. M. Yakymiv 1169 323
Conditions of Consistency, Completeness, and Relativistic Invariance of the Algebra of Equal-Time Commutators – Yu. M. Shirokov 1176 333
Eikonalization of the Scattering Amplitude in Some Field Theory Models at High Energies – B. M. Barbashov and V. V. Nesterenko 1183 343
Regularization of the Equations of the Quantum Theory for a Scalar Neutral Field with Selfinteraction in the Case of Two Spatial Degrees of Freedom – L. G. Zastavenko 1191 355
On a Complete Set of Commuting Operators for Ladder Representations of the Lie Algebra of U(6, 6) – A. V. Nikolov 1199 365
On Differential Equations for the Feynman Integral of a One-Loop Diagram – V. A. Golubeva 1210 380
Magnetic Moment of a Particle with Arbitrary Spin – V. S. Tumanov 1217 388
Channel Coupling Scheme in the R-Matrix Formalism – A. A. Luk'yanov 1224 398
Green's Functions and Admittances of Nonequilibrium Systems in a Quasilinear Approximation – V. P. Kalashnikov 1230 406
On the Solution of the Chain of Equations for an Ideal Gas – G. F. Voznesenskii 1239 418
Proton–Phonon Interaction in Ferroelectrics with Hydrogen Bonds (Strong Coupling Approximation) – I. V. Stasyuk 1249 431
Perturbation Theory for One-Dimensional Schrödinger Equations that can be Used in a Region where the Wave Function is Small – V. S. Pekar 1256 440

INDEX
Author Index, Volumes 6-9, 1971 1263
Tables of Contents, Volumes 6-9, 1971 1265